## Amendments to the Claims:

Please cancel claims 1, 10, 12, 20, 24, 41 and 43 without prejudice, and please amend claims 2-9, 11, 13-17, 19, 22, 23, 25-29, 42, 44 and 45 as follows:

- 1. (Cancelled)
- 2. (Currently Amended) The method of claim <u>17</u> wherein severing the wire with the electrical discharge comprises forming a first segment of wire having a first end attached to the terminal and a second, free end with a ball.
- 3. (Currently Amended) The method of claim <u>17</u>, further comprising attaching the wire to the terminal by moving a capillary of a bond head to a position at least proximate to the terminal, and wherein positioning the first and second electrodes comprises moving the first and second electrodes relative to the bond head.
- 4. (Currently Amended) The method of claim 1, further comprising A method of wire-bonding, comprising:
  - positioning a first electrode and a second electrode at least proximate to a wire attached to a terminal of a microelectronic component;
  - severing the wire with an electrical discharge between the first and second electrodes; and
  - attaching the wire to the terminal by moving a capillary of a bond head to a position at least proximate to the terminal, and—wherein positioning the first and second electrodes comprises moving the first and second electrodes and the bond head as a unit.
  - 5. (Currently Amended) The method of claim <u>47</u> wherein: the first electrode comprises a first tip and the second electrode comprises a second tip; and

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positioning the first and second electrodes comprises positioning the first and second tips on opposite sides of the wire.

- 6. (Currently Amended) The method of claim <u>47</u> wherein:
- the first electrode comprises a first end portion and the second electrode comprises a second end portion; and
- positioning the first and second electrodes comprises positioning the first and second end portions at an angle generally normal to the wire.
- 7. (Currently Amended) The method of claim 1, further comprising A method of wire-bonding, comprising:
  - positioning a first electrode and a second electrode at least proximate to a wire attached to a terminal of a microelectronic component;
  - severing the wire with an electrical discharge between the first and second electrodes;
    and

grounding the wire before severing the wire.

- 8. (Currently Amended) The method of claim <u>17</u> wherein: the first electrode comprises an anode and the second electrode comprises a cathode; and positioning the first and second electrodes comprises positioning the anode and the cathode at least proximate to the wire.
- 9. (Currently Amended) The method of claim 47 wherein:
  the first and second electrodes form at least part of a wire severing tool; and
  positioning the first and second electrodes comprises positioning the wire in an opening
  of the wire severing tool between the first and second electrodes.

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- 10. (Cancelled)
- 11. (Currently Amended) The method of claim 1013 wherein generating the arc between the first and second electrodes comprises forming a first segment of wire having a first end attached to the terminal and a second, free end with a ball.
  - 12. (Cancelled)
- 13. (Currently Amended) The method of claim 10, further comprising-A method of wire-bonding, comprising:

attaching a wire to a terminal of a microelectronic component;

- generating an arc between a first electrode and a second electrode to sever the wire at a

  point at least proximate to the first and second electrodes, wherein the first and

  second electrodes are moveable with respect to the wire; and
- moving the first and second electrodes and a bond head as a unit to position the first and second electrodes at least proximate to the wire before generating the arc.
- 14. (Currently Amended) The method of claim 1013 wherein:
- the first electrode comprises a first tip and the second electrode comprises a second tip; and
- the method further comprises positioning the first and second tips on opposite sides of the wire before generating the arc.
- 15. (Currently Amended) The method of claim 1013 wherein:
- the first electrode comprises a first end portion and the second electrode comprises a second end portion; and
- the method further comprises positioning the first and second end portions at an angle generally normal to the wire before generating the arc.

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- 16. (Currently Amended) The method of claim 1013 wherein: the first electrode comprises an anode and the second electrode comprises a cathode; and generating the arc comprises generating the arc between the anode and the cathode.
- 17. (Currently Amended) The method of claim 1013 wherein: the first and second electrodes form at least part of a wire severing tool; and the method further comprises positioning the wire in an opening of the wire severing tool between the first and second electrodes before generating the arc.
- 18. (Cancelled)
- 19. (Currently Amended) A method of wire bonding, comprising: The method of claim 21, further comprising providing a wire severing tool having a first electrode and a second electrode spaced apart from at least a portion of the first electrode to define an opening; positioning a wire in the opening between the first and second electrodes; generating an electrical discharge between the first and second electrodes to sever the wire; and bonding the wire to a terminal of a microelectronic component with a wire bonder.
  - 20. (Cancelled)
  - 21. (Previously Presented) A method of wire-bonding, comprising:
    providing a wire severing tool having a first electrode and a second electrode spaced apart from at least a portion of the first electrode to define an opening;
    positioning a wire in the opening between the first and second electrodes; and generating an electrical discharge between the first and second electrodes to sever the wire;
    wherein positioning the wire comprises moving the wire severing tool and a bond head as

a unit.

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- 22. (Currently Amended) The method of claim 1921 wherein:
- the first electrode of the wire severing tool comprises a first tip and the second electrode comprises a second tip; and
- positioning the wire comprises moving the wire severing tool to position the first and second tips on opposite sides of the wire.
- 23. (Currently Amended) A method of wire bonding, comprising: The method of claim 21 wherein:

providing a wire severing tool having a first electrode and a second electrode spaced apart from at least a portion of the first electrode to define an opening; positioning a wire in the opening between the first and second electrodes; and

generating an electrical discharge between the first and second electrodes to sever the wire;

wherein the first electrode of the wire severing tool comprises a first end portion and the second electrode comprises a second end portion; and

wherein-positioning the wire comprises moving the wire severing tool to position the first and second end portions at an angle generally normal to the wire.

- 24. (Cancelled)
- 25. (Currently Amended) The wire bonder of claim 24 A wire bonder for bonding a wire to a terminal of a microelectronic component, the wire bonder comprising:
  - a bond head having a capillary;
  - a first electrode and a second electrode each coupled to the bond head; and
  - a controller operably coupled to the first and second electrodes to selectively generate an electrical discharge between the first and second electrodes to sever the wire; wherein the first and second electrodes are attached to a dielectric member.
- 26. (Currently Amended) The wire bonder of claim 2425 wherein the first and second electrodes are attached to a dielectric member, and wherein the first electrode has a first

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arcuate portion with a first tip and the second electrode has a second arcuate portion with a second tip spaced apart from the first tip by a gap sized to receive the wire.

- (Currently Amended) The wire bonder of claim 2425 wherein the first and 27. second electrodes and the bond head are movable as a unit.
- (Currently Amended) The wire bonder of claim 2425, further comprising a 28. positioning mechanism coupled to the first and second electrodes to move the first and second electrodes relative to the bond head.
- (Currently Amended) The wire bonder of claim 2425 wherein the first electrode 29. comprises an anode and the second electrode comprises a cathode.
- (Original) A wire bonder for bonding a wire to a terminal of an electronic 30. component, the wire bonder comprising:
  - a bond head having a capillary;
  - a first electrode and a second electrode disposed relative to the bond head; and
  - a controller operably coupled to the first and second electrodes, the controller having a computer-readable medium containing instructions to perform a method comprising –
    - positioning the first electrode and a second electrode at least proximate to the wire attached to the terminal of the electronic component; and
    - severing the wire with an electrical discharge between the first and second electrodes.
- (Original) The wire bonder of claim 30 wherein the first and second electrodes 31. are attached to a dielectric member.
- (Original) The wire bonder of claim 30 wherein the first and second electrodes 32. are attached to a dielectric member, and wherein the first electrode has a first arcuate portion

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with a first tip and the second electrode has a second arcuate portion with a second tip spaced apart from the first tip by a gap sized to receive the wire.

- 33. (Original) The wire bonder of claim 30 wherein the first and second electrodes and the bond head are movable as a unit.
- 34. (Original) The wire bonder of claim 30, further comprising a positioning mechanism coupled to the first and second electrodes to move the first and second electrodes relative to the bond head.
- 35. (Original) The wire bonder of claim 30 wherein the first electrode comprises an anode and the second electrode comprises a cathode.
- 36. (Original) A wire bonder for bonding a wire to a terminal of a microelectronic component, the wire bonder comprising:
  - a bond head having a capillary;
  - a first electrode and a second electrode disposed relative to the bond head; and
  - a controller operably coupled to the first and second electrodes, the controller having a computer-readable medium containing instructions to perform a method comprising –

attaching the wire to the terminal of the microelectronic component; and generating an arc between the first and second electrodes to sever the wire at a point at least proximate to the first and second electrodes.

- 37. (Original) The wire bonder of claim 36 wherein the first and second electrodes are attached to a dielectric member.
- 38. (Original) The wire bonder of claim 36 wherein the first and second electrodes are attached to a dielectric member, and wherein the first electrode has a first arcuate portion

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with a first tip and the second electrode has a second arcuate portion with a second tip spaced apart from the first tip by a gap sized to receive the wire.

- 39. (Original) The wire bonder of claim 36 wherein the first and second electrodes and the bond head are movable as a unit.
- 40. (Original) The wire bonder of claim 36, further comprising a positioning mechanism coupled to the first and second electrodes to move the first and second electrodes relative to the bond head.
  - 41. (Cancelled)
- 42. (Currently Amended) The wire bonder of claim 41 A wire bonder for bonding a wire to a terminal of a microelectronic component, the wire bonder comprising:

a bond head having a capillary; and

a wire severing tool disposed relative to the bond head, the wire severing tool having a first electrode, a second electrode, and a dielectric member separating the first and second electrodes, the first electrode including a first end portion and the second electrode including a second end portion spaced apart from the first end portion to define an opening for receiving the wire;

wherein the wire severing tool and the bond head are movable as a unit.

- 43. (Cancelled)
- 44. (Currently Amended) The wire bonder of claim 4142 wherein the first end portion includes a first tip and the second end portion includes a second tip spaced apart from the first tip by a gap sized to receive the wire.
- 45. (Currently Amended) The wire bonder of claim 4142 wherein the first and second end portions have arcuate configurations.